

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tetsuo Fujii et al. Examiner: Jerome Jackson Jr.
Serial No.: 10/581,940 Group Art Unit: 2815
Filed: June 7, 2006 Docket: G&C 30794.108-US-WO
Title: HIGHLY EFFICIENT GROUP-III NITRIDE BASED LIGHT EMITTING
DIODES VIA FABRICATION OF STRUCTURES ON AN N-FACE
SURFACE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the following co-pending and commonly-assigned patent applications are brought to the attention of the Examiner:

- U.S. Serial No. 11/054,271, filed February 9, 2005, by Rajat Sharma et al., entitled “SEMICONDUCTOR LIGHT EMITTING DEVICE,” attorney docket number 30794.112-US-01 (2004-208);
 - U.S. Serial No. 11/633,148, filed December 4, 2006, by Claude C. A. Weisbuch et al., entitled “IMPROVED HORIZONTAL EMITTING, VERTICAL EMITTING, BEAM SHAPED, DISTRIBUTED FEEDBACK (DFB) LASERS FABRICATED BY GROWTH OVER A PATTERNED SUBSTRATE WITH MULTIPLE OVERGROWTH,” attorney docket number 30794.143-US-U1 (2005-721);
 - U.S. Serial No. 11/593,268, filed November 6, 2006, by Steven P. DenBaars et al., entitled “HIGH LIGHT EXTRACTION EFFICIENCY LIGHT EMITTING DIODE (LED),” attorney docket number 30794.161-US-U1 (2006-271);
 - U.S. Serial No. 11/608,439, filed December 8, 2006, by Steven P. DenBaars et al., entitled “HIGH EFFICIENCY LIGHT EMITTING DIODE (LED),” attorney docket number 30794.164-US-U1 (2006-318);
 - U.S. Serial No. 11/940,848, filed November 15, 2007, by Aurelien J. F. David et al., entitled “HIGH LIGHT EXTRACTION EFFICIENCY LIGHT EMITTING

DIODE (LED) THROUGH MULTIPLE EXTRACTORS,” attorney docket number 30794.191-US-U1 (2007-047);

- U.S. Serial No. 11/940,853, filed November 15, 2007, by Claude C. A. Weisbuch et al., entitled “HIGH EFFICIENCY WHITE, SINGLE OR MULTI-COLOR LIGHT EMITTING DIODES (LEDS) BY INDEX MATCHING STRUCTURES,” attorney docket number 30794.196-US-U1 (2007-114);
- U.S. Serial No. 11/940,866, filed November 15, 2007, by Aurelien J. F. David et al., entitled “HIGH LIGHT EXTRACTION EFFICIENCY LIGHT EMITTING DIODE (LED) WITH EMITTERS WITHIN STRUCTURED MATERIALS,” attorney docket number 30794.197-US-U1 (2007-113);
- U.S. Serial No. 11/940,885, filed November 15, 2007, by Natalie N. Fellows-DeMille et al., entitled “TEXTURED PHOSPHOR CONVERSION LAYER LIGHT EMITTING DIODE,” attorney docket number 30794.203-US-U1 (2007-270);
- U.S. Serial No. 11/940,883, filed November 15, 2007, by Shuji Nakamura et al., entitled “STANDING TRANSPARENT MIRRORLESS LIGHT EMITTING DIODE,” attorney docket number 30794.205-US-U1 (2007-272).
- U.S. Serial No. 11/940,898, filed November 15, 2007, by Steven P. DenBaars et al., entitled “TRANSPARENT MIRRORLESS LIGHT EMITTING DIODE,” attorney docket number 30794.206-US-U1 (2007-273).
- U.S. Serial No. 11/954,163, filed December 11, 2007, by Shuji Nakamura et al., entitled “LEAD FRAME FOR TM-LED,” attorney docket number 30794.210-US-U1 (2007-281);
- U.S. Serial No. 11/954,154, filed December 11, 2007, by Shuji Nakamura et al., entitled “TRANSPARENT LIGHT EMITTING DIODES,” attorney docket number 30794.211-US-U1 (2007-282);
- U.S. Serial No. 12/001,286, filed December 11, 2007, by Mathew C. Schmidt et al., entitled “MOCVD GROWTH OF HIGH PERFORMANCE M-PLANE GAN OPTICAL DEVICES,” attorney docket number 30794.212-US-U1 (2007-316);
- U.S. Serial No. 12/001,227, filed December 11, 2007, by Steven P. DenBaars et al., entitled “NON-POLAR (M-PLANE) AND SEMI-POLAR EMITTING DEVICES,” attorney docket number 30794.213-US-U1 (2007-317);

- U.S. Serial No. 12/059,918, filed March 31, 2008, by Umesh K. Mishra et al., entitled “DUAL SURFACE-ROUGHENED N-FACE HIGH-BRIGHTNESS LED,” attorney docket number 30794.217-US-U1 (2007-279);
- U.S. Serial No. 12/181,100, filed July 28, 2008, by Kenji Iso et al., entitled “LIGHT EMITTING DIODES WITH A P-TYPE SURFACE BONDED TO A TRANSPARENT SUBMOUNT TO INCREASE LIGHT EXTRACTION EFFICIENCY,” attorney docket number 30794.239-US-U1 (2007-670);
- U.S. Serial No. 12/464,711, filed May 12, 2009, by Adele Tamboli et al., “PHOTOELECTROCHEMICAL ROUGHENING OF P-SIDE-UP GaN-BASED LIGHT-EMITTING DIODES,” attorney docket number 30794.271-US-U1 (2008-535);
- U.S. Serial No. 12/464,723, filed May 12, 2009, by Adele Tamboli et al., “PHOTOELECTROCHEMICAL ETCHING OF P-TYPE SEMICONDUCTOR HETEROSTRUCTURES,” attorney docket number 30794.272-US-U1 (2008-533); and
- U.S. Serial No. 12/275,136, filed November 20, 2008, by Steven P. DenBaars, “HIGH LIGHT EXTRACTION EFFICIENCY PACKAGE FOR A LIGHT EMITTING DIODE,” attorney docket number 30794.290-US-I1 (2007-271).

These patent applications were all filed after the above-identified application, and are directed to subject matter that is related to the subject matter of this application. Consideration of the items listed is respectfully requested.

Please direct any inquiries to the below-signed attorney.

Respectfully submitted,

GATES & COOPER LLP
Attorneys for Applicants

Howard Hughes Center
6701 Center Drive West, Suite 1050
Los Angeles, California 90045
(310) 641-8797

Date: October 7, 2009

GHG/

By: George H. Gates
George H. Gates
Reg. No.: 33,500